

CPC**COOPERATIVE PATENT CLASSIFICATION****B63G**

**OFFENSIVE OR DEFENSIVE ARRANGEMENTS ON VESSELS;
MINE-LAYING; MINE-SWEEPING; SUBMARINES; AIRCRAFT
CARRIERS** (means of attack or defence in general e.g. turrets F41H)

NOTE

In this subclass, the indexing codes [B63B 2201/00](#) to [B63B 2241/00](#) are to be used for relevant technical information concerning particular or unusual use, materials, design, methods or means.

B63G 1/00

Arrangements of guns or missile launchers; Vessels characterised thereby (submarines [B63G 8/00](#); guns, missile launchers F41)

B63G 3/00

Arrangements of ammunition stores or handlers (specially for submarines [B63G 8/00](#); feeding ammunition missiles or projectiles to guns in general [F41A 9/00](#)); **Vessels characterised thereby** (general cargo aspects B63B)

B63G 3/02

- . for torpedoes

B63G 3/04

- . for missiles

B63G 3/06

- . for mines or depth charges

B63G 5/00

Vessels characterised by adaptation to torpedo launching (submarines [B63G 8/00](#); torpedo launching per se [F41F](#))

B63G 6/00

Laying of mines or depth charges; Vessels characterised thereby (arrangements on submarines for mine laying [B63G 8/33](#))

B63G 7/00

Mine-sweeping; Vessels characterised thereby

B63G 7/02

- . Mine-sweeping means, Means for destroying mines

B63G 7/04

- . . by means of cables

B63G 7/06

- . . of electromagnetic type

B63G 7/08

- . . of acoustic type

B63G 8/00

Underwater vessels, e.g. submarines; { Equipment specially adapted therefor}(submarine hulls [B63B 3/13](#); diving chambers with mechanical link, e.g. cable, to a base [B63C 11/34](#); divers' sleds [B63C 11/46](#); torpedoes [F42B 19/00](#))

B63G 8/001

- . { Underwater vessels adapted for special purposes, e.g. unmanned, underwater

vessels; Equipment specially adapted therefor, e.g. docking stations (self-propelled or direction controlled diving chambers with mechanical link to a base [B63C 11/42](#))}

WARNING

[B63G 8/001](#) is not complete pending a reclassification; see also group [B63C 11/42](#)

- B63G 8/04 . Superstructure
- B63G 8/06 . . Conning-towers
- B63G 8/08 . Propulsion ({ [schnorkels B63G 8/36](#); [marine propulsion or steering in general B63H](#);} [nuclear propulsion B63H 21/18](#); [propulsion power plants or units per se { F01 to F04}](#); [submerged exhausting apparatus F01N 13/12](#))
- B63G 8/10 . . using steam plant
- B63G 8/12 . . using internal-combustion engines
- B63G 8/14 . Control of attitude or depth ([of torpedoes F42B 19/00](#))
- B63G 8/16 . . by direct use of propellers or jets
- B63G 8/18 . . by hydrofoils
- B63G 8/20 . . Steering equipment ([B63G 8/16](#), [B63G 8/18](#) take precedence; [steering of vessels in general B63H 25/00](#))
- B63G 8/22 . . Adjustment of buoyancy by water ballasting; Emptying equipment for ballast tanks ({ [conduits for emptying or ballasting on vessels in general B63B 13/00](#);} [stabilising vessels using ballast tanks B63B 43/06](#))
- B63G 8/24 . . Automatic depth adjustment; Safety equipment for increasing buoyancy, e.g. detachable ballast, floating bodies
- B63G 8/26 . . Trimming equipment
- B63G 8/28 . Arrangement of offensive or defensive equipment
- B63G 8/30 . . of artillery or missile launching means
- B63G 8/32 . . of torpedo-launching means ([torpedo-launching means per se F41F 3/00](#)); of torpedo stores or handlers
- B63G 8/33 . . of mine-laying means ([mine laying vessels other than submarines B63G 6/00](#))
- B63G 8/34 . . Camouflage ([for other vessels B63G 13/02](#); in general [F41H 3/00](#))
- B63G 8/36 . Adaptations of ventilation, [e.g. [schnorkels](#),] cooling, heating, or air-conditioning ([reconditioning air in sealed chambers A62B 11/00](#); for vessels in general [B63J 2/00](#); [air-conditioning in general F24F](#))
- B63G 8/38 . Arrangement of visual or electronic watch equipment, e.g. of periscopes, of radar [N: ([periscopes, optical aiming or sighting devices per se G02B 23/00](#))
- B63G 8/39 . Arrangement of sonic watch equipment, e.g. low-frequency, sonar
- B63G 8/40 . Rescue equipment for personnel ([life-saving in water, not specially adapted for submarine personnel B63C](#))
- B63G 8/41 . . Capsules, chambers, water-tight boats or the like, detachable from the submarine

- B63G 8/42** . Towed underwater vessels
- B63G 9/00** **Other offensive or defensive arrangements on vessels against submarines, topedoes, or mines**
- B63G 9/02** . Means for protecting vessels against torpedo attack ([armoured hulls B63B 3/10](#))
- B63G 9/04** . . . Nets or the like ([net barriers for harbour defence F41H 11/00](#))
- B63G 9/06** . for degaussing vessels ([demagnetising in general H01F 13/00](#))
- B63G 11/00** **Aircraft carriers** ([other vessels or floating structures for aircraft B63B 35/50](#); launching or arresting gear for aircraft [B64F](#))
- B63G 13/00** **Other offensive or defensive arrangements on vessels; Vessels characterised thereby**
- B63G 13/02** . Camouflage ([for submarines B63G 8/34](#))
- B63G 2007/00** **Mine-sweeping; Vessels characterised thereby**
- B63G 2007/005** . Unmanned autonomously operating mine sweeping vessels
- B63G 2007/02** . Mine-sweeping means, Means for destroying mines
- B63G 2007/06** . . . of electromagnetic type
- B63G 2007/065** . . . by making use of superconductivity
- B63G 2008/00** **Underwater vessels, e.g. submarines; { Equipment specially adapted therefor}(submarine hulls [B63B 3/13](#); diving chambers with mechanical link, e.g. cable, to a base [B63C 11/34](#); divers' sleds [B63C 11/46](#); torpedoes [F42B 19/00](#))**
- B63G 2008/001** . { [Underwater vessels adapted for special purposes, e.g. unmanned, underwater vessels; Equipment specially adapted therefor, e.g. docking stations \(self-propelled or direction controlled diving chambers with mechanical link to a base \[B63C 11/42\]\(#\)\)](#)}
- WARNING**
- [B63G 8/001](#) is not complete pending a reclassification; see also group [B63C 11/42](#)
- B63G 2008/002** . . . unmanned
- B63G 2008/004** . . . autonomously operating
- B63G 2008/005** . . . remotely controlled
- B63G 2008/007** by means of a physical link to a base, e.g. wire, cable or umbilical
- B63G 2008/008** . . . Docking stations for unmanned underwater vessels, or the like

- B63G 2008/08
 - . Propulsion ({ [schnorkels B63G 8/36](#); [marine propulsion or steering in general B63H](#);} [nuclear propulsion B63H 21/18](#); [propulsion power plants or units per se { F01 to F04}](#); [submerged exhausting apparatus F01N 13/12](#))
- B63G 2008/10
 - . . using steam plant
- [B63G 2008/105](#)
 - . . . using Walter-type plants, i.e. power plants in which steam is generated in a reactor vessel by reaction between a fuel and an oxidant, e.g. hydrogen peroxide
- B63G 2008/40
 - . Rescue equipment for personnel ([life-saving in water, not specially adapted for submarine personnel B63C](#))
- [B63G 2008/403](#)
 - . . Docking rescue units
- [B63G 2008/406](#)
 - . . Submarine escape suits
- B63G 2008/42
 - . Towed underwater vessels
- [B63G 2008/425](#)
 - . . for transporting cargo, e.g. submersible barges for fluid cargo
- B63G 2009/00**

Other offensive or defensive arrangements on vessels against submarines, topedoes, or mines
- [B63G 2009/005](#)
 - . of sonic watch equipment, e.g. low-frequency or sonar
- B63G 2013/00**

Other offensive or defensive arrangements on vessels; Vessels characterised thereby
- B63G 2013/02
 - . Camouflage ([for submarines B63G 8/34](#))
- [B63G 2013/022](#)
 - . . using means for reducing noise emission into air or water
- [B63G 2013/025](#)
 - . . using means for reducing radiation emission of electromagnetic waves, e.g. infrared, into air or water
- [B63G 2013/027](#)
 - . . using stealth design, i.e. superstructures, hulls, or other vessel's components shaped or constructed for minimizing reflection of radar or sonar beams, or the like